

ABSTRACT

A communication apparatus (100) includes a plurality of distributed communication elements (200). Each communication element (200) functions to communicate only with other neighboring communication elements. The coverage is so set as to allow local communications with other neighboring communication elements. The local communications allow a signal to be successively communicated between the communication elements, thereby conveying the signal to the communication element at the destination. The plurality of communication elements are divided into ranks according to their management functions. Route data can be set in each rank, thereby allowing a signal to be efficiently conveyed to the final destination.